

4.5 PSP Cover Sheet

99B-188  
MOVED TO 5

Proposal Title: Butte Creek Watershed Education Project  
Applicant Name: The CSU, Chico Research Foundation-Office of Sponsored Programs  
Mailing Address: Kendall Hall, Room 114, Chico, California 95929-0870  
Telephone: 530-898-5206  
Fax: 530-898-6804  
Email: kcooper-carter@csuchico.edu

Amount of funding requested: \$ \$141,512 for 2 years

Indicate the Topic for which you are applying (check only one box).

- |   |   |
|---|---|
| <input type="checkbox"/> Fish Passage/Fish Screens      | <input type="checkbox"/> Introduced Species       |
| <input checked="" type="checkbox"/> Habitat Restoration | <input type="checkbox"/> Fish Management/Hatchery |
| <input type="checkbox"/> Local Watershed Stewardship    | <input type="checkbox"/> Environmental Education  |
| <input type="checkbox"/> Water Quality                  |   |

Does the proposal address a specified Focused Action? yes X no

What county or counties is the project location in? Butte

Indicate the geographic area of your proposal (check only one box):

- |   |   |
|---|---|
| <input type="checkbox"/> Sacramento River Mainstem                | <input type="checkbox"/> East Side Trib: _____                  |
| <input checked="" type="checkbox"/> Sacramento Trib: <u>Butte</u> | <input type="checkbox"/> Suisun Marsh and Bay                   |
| <input type="checkbox"/> San Joaquin River Mainstem               | <input type="checkbox"/> North Bay/South Bay: _____             |
| <input type="checkbox"/> San Joaquin Trib: _____                  | <input type="checkbox"/> Landscape (entire Bay-Delta watershed) |
| <input type="checkbox"/> Delta: _____                             | <input type="checkbox"/> Other: _____                           |

Indicate the primary species which the proposal addresses (check all that apply):

- |  |  |
|--|--|
| <input type="checkbox"/> San Joaquin and East-side Delta tributaries fall-run chinook salmon | <input type="checkbox"/> Spring-run chinook salmon           |
| <input type="checkbox"/> Winter-run Chinook salmon   | <input type="checkbox"/> Fall-run chinook salmon             |
| <input type="checkbox"/> Late-fall run chinook salmon  | <input type="checkbox"/> Longfin smelt                       |
| <input type="checkbox"/> Delta smelt   | <input checked="" type="checkbox"/> Steelhead trout          |
| <input type="checkbox"/> Splittail   | <input type="checkbox"/> Striped bass                        |
| <input type="checkbox"/> Green sturgeon  | <input type="checkbox"/> All chinook species                 |
| <input type="checkbox"/> Migratory birds   | <input checked="" type="checkbox"/> All anadromous salmonids |
| <input type="checkbox"/> Other: _____  |  |

Specify the ERP strategic objective and target (s) and the project addresses: Include page numbers from January 1999 version of ERP Volume I and II:

The vision for the Butte Creek Ecological Management Unit for protecting and restoring riparian corridor (v II, p. 261). The Stream Meander and Floodplain Target 1 (vII, page 268). The Coarse Sediment Supply Target 3 (vII, Page 268). Habitats-Seasonal Wetlands Programmatic Actions

1A and 2A (vII, page 269). Riparian and Riverine Aquatic Habitats Target 4 and Programmatic Action 4A (vII, page 271). Agricultural Lands Objective (v. I, p. 174 and v. II p. 262). The Chinook salmon objective, fall-run Chinook salmon vision and programmatic action ( vol. II, p. 263 and p. 273).

Indicate the type of applicant (check only one box):

- |  |   |
|--|---|
| <input type="checkbox"/> State agency                    | <input type="checkbox"/> Federal Agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input type="checkbox"/> Non-profit     |
| <input type="checkbox"/> Local government/district       | <input type="checkbox"/> Private party  |
| <input checked="" type="checkbox"/> University           | <input type="checkbox"/> Other: _____   |

Indicate the type of project (check only one box):

- |                                     |   |
|-------------------------------------|---|
| <input type="checkbox"/> Planning   | <input type="checkbox"/> Implementation       |
| <input type="checkbox"/> Monitoring | <input checked="" type="checkbox"/> Education |
| <input type="checkbox"/> Research   |   |

By signing below, the applicant declares the following:

- 1.) The truthfulness of all representations in their proposal;
- 2.) The individual signing the form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or organization); and
- 3.) The person submitting the application has read and understood the conflict of interest and confidentiality discussion on the PSP (Section 2.4) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

The CSU, Chico Research Foundation

Jeff Wright

Printed name of applicant

Signature of applicant

# Butte Creek Watershed Education Project

*Applicant:*

Research Foundation  
California State University, Chico

*Participants and Collaborators:*

Butte Creek Watershed Conservancy  
Streaminders  
CSU Chico  
Butte County Office of Education  
Glenn County Office of Education  
Meridian Environmental Academy  
Adopt-A-Watershed  
Sacramento River Discovery Center  
Placer County Outdoor Science Program  
Big Chico Watershed Alliance

*Applicant Information:*

certified nonprofit organization  
exempt tax status  
Federal ID#: 68-0386318

*Technical contact person:*

Donald Holtgrieve, Ph.D.  
dholtgrieve@csuchico.edu

## **II. EXECUTIVE SUMMARY**

### **A. Project title/applicant name**

Butte Creek Watershed Education Project  
Research Foundation, California State University, Chico  
Director: Don Holtgrieve, Ph.D.

### **B. Project Description/Primary Biological and Ecological Objectives**

The Butte Creek Watershed Education Project (BCWEP) is a cooperative effort supported by funding from the U.S. Fish and Wildlife Service (FWS), CALFED, EPA 319h and the National Fish and Wildlife Foundation, administered by the Research Foundation of California State University, Chico (CSUC). An education coordinator and a core group of 16 teachers in the Chico, Paradise and Durham School Districts oversee the implementation of watershed education within their respective districts and organize community events and restoration activities on parcels of land in the Butte Creek Watershed. In the two years of its existence, BCWEP has provided training for 75 teachers from 4 school districts and 15 schools in Butte County.

BCWEP has carefully structured the program to address the four components of comprehensive watershed education. They include: 1) the introduction of grade-level appropriate, standards based science concepts; 2) long-term field study; 3) restoration activities; and 4) community service action. An education coordinator was chosen who is a secondary science teacher, a member of the Chico Unified Science Task Force and a staff developer for the California Science Project. The coordinator has been funded to coordinate the project two days a week for the 1998-1999 school year.

This project would continue the efforts of the education coordinator and establish positions in other districts, provide for greater participation of teachers in training workshops through the Adopt-A-Watershed leadership training program, provide additional trainings in Rapid Bioassessment and Project WET, maintain existing and expand new restoration areas for students, expand field study opportunities, and enhance linkages with education programs starting up or underway in Tehama County, Glenn County, Sutter County and Placer County.

### **C. Approach/Tasks/Schedules**

The approach of this project is to continue the successful efforts of the core teachers and the education coordinator, expand the coordinator functions to other school districts, provide continued training in appropriate curriculum and field study protocols, continue and expand restoration activities and enhance linkages with watershed education efforts in the region. The project tasks are to: 1) Continue the efforts of the education coordinator; 2) Establish positions in other districts; 3) Provide for participation of teachers in training workshops through the Adopt-A-Watershed leadership training program; 4) Provide a complete set of Adopt-A-Watershed classroom kits to the Butte County Instructional Resource Center; 5) Provide additional trainings in Rapid Bioassessment and Project WET; 6) Maintain existing and expand new restoration areas and field study opportunities for students; 7) Enhance linkages with Glenn County, Sacramento River Discovery Center, Meridian Environmental Education Academy, and Placer County Outdoor Science Program; 8) Support a portion of an Americorp education and restoration team to work in the classrooms and in the field; 9) Project management. The

schedule is for the project to begin in September 1999 and continue through August of 2001. Coordinators would be funded for the 1999-2001 school years in Chico and the 2000-2001 school year in the other districts.

**D. Justification for Projects and Funding by CALFED**

Anthropogenic disturbance of the primary habitats of the priority species identified by CALFED is a great concern. Many of these disturbances have been modified or restored to protect these resources. However, to change public attitudes toward our interaction with the habitats of other species is not so simple. Many of the habitats were rich with resources that helped fuel the development of the area. Recognizing the responsibility to use resources wisely is important to change perceptions and fuel the enthusiasm to restore and enhance them. Further developing and expanding a comprehensive K-12 and public education program that is integrated with the local conservation groups and agencies that are promoting the efforts is critical to the long term success of CALFED and other programs. This project will further the efforts funded by EPA and FWS to provide a balance between humans and the priority habitats and species of CALFED.

**E. Budget Costs and Third Party Impacts**

The budget for the BWCEP is \$141,512. No negative third party impacts would be realized from this project. Third party beneficiaries would include a broad spectrum of the general public as children and their parents learn more about the concerns for protecting the watershed resources. Education will be the sustainable legacy of CALFED.

**F. Applicant Qualifications**

The protection and enhancement of local creeks and watersheds by local community groups is a high priority at California State University, Chico. Toward this end, faculty and resources, conservation groups, public agencies, and others are utilized. As a part of its community service mission, it is the policy of the University Research Foundation to organize teams for special projects and to provide the kinds of services such as project administration, direction, management, and support through the many involved faculty, department, institutes, centers, laboratories, internships, and class projects.

**G. Monitoring and Data Evaluation**

The project team is constantly monitoring and evaluating its process. Monitoring and evaluation for the proposed project includes: (1) core teacher evaluations (2) teacher workshop evaluations (3) records of the numbers of teachers, students, and visitors involved in the program and the hours of involvement (4) education coordinators annual reports.

**H. Local Support/Coordination/Compatibility with CALFED Objectives**

Local support and coordination has been solicited from Butte and Glenn County Offices of Education, Chico Unified School District, Streaminders, Americorp, Sacramento River Discovery Center, Adopt-A-Watershed, Meridian Environmental Academy, Butte Creek Watershed conservancy, Big Chico Creek Watershed Alliance, and Little Chico Creek Watershed Group. The project is consistent with CALFED Environmental Education objectives to increase public understanding and awareness of the resource issues that led to the development of the CALFED Bay-Delta program and foster participation in conservation programs and the wise use of natural resources.

### III. PROJECT DESCRIPTION

#### A. Proposed scope of work

The Butte Creek Watershed Education Project (BCWEP) has provided coordination and training for the development and implementation of watershed curriculum to teachers primarily in the Chico, Durham and Paradise School Districts. The program, with initial funding from the U.S. Fish and Wildlife Service (FWS), CALFED and the National Fish and Wildlife Foundation (NFWF), established a core group of teachers who reviewed curriculum and developed a strategy to provide training and materials to a broader group of K-12 educators. With subsequent funding from EPA 319h, the program began the implementation of curriculum, establishment of a resource library, development of audio-visual materials, trainings for appropriate curriculum, and field studies that include restoration work on several sites on Butte Creek. More than forty teachers have received training this year in Adopt-A-Watershed (AAW) and twenty four in Project Wet. In 1998, more than a dozen teachers completed three-day courses in Rapid Bioassessment of aquatic macroinvertebrates. In the two years of its existence, BCEP has provided training for 75 teachers from 4 school districts and 25 schools in Butte County.

BCWEP has carefully structured the program to address the four components of comprehensive watershed education. They include: 1) the introduction of grade-level appropriate, standards based science concepts; 2) long-term field study; 3) restoration activities; and 4) community service action. An education coordinator was chosen who is a secondary science teacher, a member of the Chico Unified Science Task Force and a staff developer for the California Science Project. The coordinator has been funded to coordinate the project two days a week for the 1998-1999 school year.

Important linkages have been established with other watershed focused education projects throughout the region. The Sacramento River Discovery Center (SRDC) has coordinated several of the initial AAW trainings for BCWEP and provided several teachers with specific programs including guided raft trips on the river to visit farms, forest, natural and rip-rapped section of river banks. In addition, the project has developed a strong relationship with the Izaak Walton League local group, "Streaminders". They have been involved in education and restoration projects in the Chico area since 1980. They will provide the technical support for the restoration activities with the education project. Americorp has provided three stipend education program members to provide services in the classroom and in the field. Another important partners is the Chico Unified School District "Learn and Serve" program which has provided matching funds for teacher trainings, field activities and community educational events. Butte County Office of Education has offered support for expanding the program to other school districts and housing classroom kits at the Instructional Resource Center. Interest in coordinating with Glenn County and Meridian School District Environmental Education Academy has been developed. The Butte County Fish and Game Commission is providing \$1000 in materials to raise native riparian plants for the restoration projects and the Red Bluff Department of Water Resources office has agreed to provide quality assurance assistance for the water quality monitoring program. The approach of this project is to continue the successful efforts of the core teachers and the education coordinator, expand the coordinator functions to other school districts, provide

continued training in appropriate curriculum and field study protocols, continue and expand restoration activities and enhance linkages with watershed education efforts in the region. AAW is applying for a CALFED grant to conduct a Leadership Institute in the Sacramento Valley with support for four or five teams from the Butte, Glenn, and Sutter County area. Five teams would participate from the Tehama County region. This will provide an opportunity for local leaders to meet, work together and further coordinate educational activities throughout the region.

The specific activities and elements to be funded by this grant would be to supplement the personnel services, operating expenses and professional and consultant services of the BCWEP. The project tasks are to: 1) continue the efforts of the education coordinator; 2) establish positions in other districts; 3) provide for participation of teachers in training workshops through the Adopt-A-Watershed leadership training program; 4) provide a complete set of Adopt-A-Watershed classroom kits to the Butte County Instructional Resource Center; 5) provide additional trainings in Rapid Bioassessment and Project WET; 6) maintain existing and expand new restoration areas and field study opportunities for students, 7) enhance linkages with Glenn County, Sacramento River Discovery Center, Meridian School District Environmental Education Academy, and Placer County Outdoor Science Program; 8) Support a portion of an Americorp education and restoration team to work in the classrooms and in the field; 9) Project management.

The specific deliverables are by task: 1&2) Education coordinators annual report; 3) Training summary and certificate copies; 4) Instructional Resource Center classroom kits checkout records; 5) Training summaries and certificates; 6) Photo monitoring of restoration and field study activities; 7) Regional Watershed Workshop and Watershed Education Committee reports; 8) Americorp annual reports; 9) Quarterly and final reports. The project has been ongoing and will proceed in a single continuous phase. The schedule is for the project to begin in September 1999 and continue through August of 2001. Coordinators would be funded for the 1999-2001 school years in Chico and other districts in the 2000-2001 school year. University faculty would focus on production of important informational components needed for the education project such as implementation and restoration planning. The project manager would assist in the coordination of the process and public involvement through the Butte Creek Watershed Conservancy and other public and private interests in the watershed. Educational coordinators will be responsible for developing curriculum and audio-visual materials. Staff, student assistants, volunteer coordinators and consultants would contribute to the acquisition of information, increasing public involvement and developing the vision for the BCWEP. Americorp will provide classroom and field support for all of the activities.

#### **B. Location And Geographic Boundaries**

The proposed project is located in the Butte Basin of the Sacramento River watershed.

#### **IV. ECOLOGICAL/BIOLOGICAL BENEFITS**

##### **A. Ecological/Biological Objectives**

Butte Creek, a tributary to the Sacramento River, flows from its headwaters in the Lassen National Forest, through Sierra foothills to the Central Valley. Much of the stream in this Central Valley reach has levees with adjacent intensive agricultural development. Butte Creek is one of the most important streams remaining in California for the conservation of spring-run Chinook salmon and steelhead with historic salmon populations recorded at over 22,000 adults. This Butte Creek population was one of California's largest spring run, Sacramento River being the largest with nearly a million fish. Over the last 30 years, with the exception of 1995 and 1998, the population has ranged from around fifty to just over a thousand. The decline of these populations (see chart) reflect the effects of stressors such as hydromodification, loss of the stream's deep cool pools, shaded riverine habitat, excess sediment transport, agricultural runoff and other physical, chemical and biological changes. Similar declines in population have occurred for other species of concern to CALFED due to similar stressors.

Education is the key to raising the level of awareness of these important resource issues and the stressors on the ecosystem. This is especially true when parent volunteers are encouraged to participate in the program. This project will increase public awareness, knowledge and appreciation of natural resources and ecosystem restoration activities, foster active participation in conservation programs, or encourage individuals to wisely use natural resources. This project will focus on the goals of the overall CALFED program and the Strategic Plan Goals of this Ecosystem Restoration Program solicitation.

Once awareness is achieved the next level is action. Students spend more time playing and exploring in creeks than most adults. Students who visit a site on a daily or weekly basis over a period of years will have an understanding of long term trends if given a basic foundation in science concepts. Most schools in our region are within walking distance of a creek or stream which facilitates field study and restoration work. By engaging thousands of additional students in restoration projects such as tree planting and erosion control we can enhance stream habitat in a much more timely manner.

##### **V. TECHNICAL FEASIBILITY AND TIMING**

The BCWEP has been developing for two years in the local school districts of the Butte Creek Watershed. Linkages with other local programs throughout the region has allowed for the program to develop in Butte County consistent with State Standards for science education.

## VI. MONITORING AND DATA COLLECTION METHODOLOGY

Table 2

Bio/Ecological Objectives			
Hypothesis	Monitoring parameter	Data Evaluation Approach	Comments/Data Priority
Macroinvertebrate assist in determining water quality	Following Rapid Bioassessment protocols, insects will be collected using a D-net	Insects will be sorted to the order level and an EPT index will be used to establish water quality.	DWR representative Jerry Boles will evaluate collection and analysis techniques.
Amphibian/ Butterfly/ Bird Surveys bi-annually	Adopt-A-Watershed field study protocols will be followed	CSUC staff	
Plant transect inventory (once in spring)	Adopt-A-Watershed field study protocols will be followed	CSUC staff	
9 chemical water quality tests (quarterly) plant succession study (once per year)	Field Manual for water quality monitoring handbook protocols	CSUC staff	

**Please note that the data collected is for educational purposes and is not yet intended to be submitted for use by state or federal agencies.**

## VII. Local Involvement

The Butte County Office of Education (BCOE) has enthusiastically supported this opportunity to implement a high-quality, standards-based science curriculum in its schools. BCOE will host Adopt-A-Watershed trainings for the BCWEP and offer its Instructional Resource Center as a repository for field study kits and curriculum. Materials will then be conveniently available to Butte County teachers through the inter-district loan program.

Streaminders Environmental Education Program has been working with local school children since 1980 providing the "Salmon in the Classroom" program and creek ecology/restoration field trips. They will continue to work with the BCWEP facilitating the restoration component of watershed education. The Chico Unified School District's Learn and Serve Program (funded by CALSERVE) has been a partner with the BCEP since its inception in 1996. The long-term field study, restoration, and community action components of watershed education offer a perfect

avenue to carry out service learning objectives. The Learn and Serve office has provided funding for teacher release time for teachers to attend Adopt-A-Watershed and Project WET trainings and to take their classes on field trips. It has also provided funding to purchase tools and equipment for propagating riparian plants to be used in revegetation projects. In return the BCWEP has coordinated the trainings and field work opportunities for teachers interested in service learning.

The California Science Project of Inland Northern California (funded through the University of California Subject Matter Projects Office) provides professional development in science to teachers in the nine northeastern counties of Siskiyou, Modoc, Trinity, Shasta, Lassen, Tehama, Plumas, Glenn and Butte. The content focus for the next three years is water and watershed studies. This focus was selected for many reasons: because it encompasses all of the sciences, it addresses issues of real life importance for this region, it can utilize the many waterways of Northern California as living laboratories, it provides for long-term field study, problem-based and service learning. Another important consideration was the availability of quality curricula and the support offered by organizations such as the BCWEP.

Local Watershed Groups such as the Little Chico Creek Work Group and the Big Chico Creek Watershed Alliance along with the Butte Creek Watershed Conservancy focus on the area served by Chico Unified School District. These groups are united in supporting the Education Project.

## VIII. COST

### A. Budget

Table 3

Task	Direct Labor Hours	Direct Salary, Benefits	Service Contracts	Material, Acquisition Costs	Miscellaneous, other Direct Costs	Indirect	Total Costs
Task 1	100	1659	20,500		2000	600.6	24,759
Task 2	100	1659	19,500		2000	600.6	23759.6
Task 3	200	3318	7500		1000	1201.2	13019.2
Task 4	50	829.5		13,000	400	300.3	14529.8
Task 5	150	2488.5	2500		900	900.9	6789.4
Task 6	400	6636	4000	6000	900	2402.4	19938.4
Task 7	200	3318			900	1201.2	5419.2
Task 8	300	4980	20,000		900	1801.8	27681.8
Task 9	160	2654.4			2000	960.96	5615.36
Total	1660	27542.4	74000	19000	11000	9969.96	141512

**Table 4 Quarterly Budget**

Task	10-12 1999	1-3 2000	4-6 2000	7-9 2000	10-12 2000	1-3 2001	4-6 2000	7-9 2001	Total
Task 1	3094	3094	3094	3094	3094	3094	3094	3107	24766
Task 2	532	532	532	2,969	5,407	5,407	5,407	2,973	23759
Task 3	690	690	690	4690	690	4190	690	689	13019
Task 4	13,500							1,030	14530
Task 5		1,131	1,131	1,131	1,131	1,131	1,134		6789
Task 6	2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,488	19938
Task 7	677	677	677	677	677	677	677	673	5419
Task 8	6,919	6,919	6,919	6,922					27679
Task 9	702	702	700	700	700	700	700	700	5613
Total	28606	16237	16235	22675	14191	17691	14194	11660	141512

**B. Schedule**

The education coordinators will work throughout the project to develop the program in their respective districts. The Chico Coordinator is funded for 2 years and the other district coordinators for 1 year. AAW training will occur in the summer of 2000. Follow-up workshops will occur in the spring of 2001. Project Wet and Rapid bioassessment training will occur in spring and fall of 2001. Restoration projects, field studies and coordination with other education projects (AAW, SRDC, Glenn and Sutter schools) will occur throughout the project.

**C. Third party impacts**

No significant negative third party impacts are anticipated as a result of this project. Third party beneficiaries include all of the general public and the important interest groups. A greater public awareness of the value of watersheds will significantly reduce the stressors that are anthropogenically exacerbated.

Several projects on Butte Creek are planned which in combination with increased riverine edge habitat created by this project will greatly change the creek's and the fishery's condition. The Butte Creek Watershed Conservancy and CSU Chico are completing an Existing Conditions Report and creating a Watershed Management Strategy. The Nature Conservancy, Northern California Water Association and California Waterfowl Association are working on improvements in the Butte Sink, on the Butte and Sacramento Sloughs at the junction of Butte Creek and the Sacramento River and improvements to several dams are likely. This project helps to link those projects to improve conditions for anadromous fish recovery the full length of Butte

Creek. CSU Chico, DFG and the Parks and Preserves Foundation are working on a joint restoration project. The Center for Natural Lands Management is restoring a 56 acre project on Butte Creek in Durham. Both of these organizations support and encourage this proposed project to educate students on the protection of habitats and the dependent species, the wise use of natural resources and monitoring restoration efforts on Butte Creek.

#### **IX. COST SHARING**

Tremendous amounts of volunteer time are involved in the education project. Using volunteer parent drivers for restoration and field study trips reduces cost to the program and provides an opportunity to share the program with adults. This greatly reinforces the education for the students. Americorp is providing a significant portion of the costs for a 14 person education team and a 14 person restoration team to assist in classroom and outdoor activities. Student interns from CSU Chico will also provide in-kind services to assist in the project. Learn and Serve will provide additional support for training and Butte county Office of Education will provide support for loan of AAW materials through the Instructional Resource Center. Adopt-A-Watershed will provide the bulk of the cost for the AAW training through a CALFED grant currently being submitted.

#### **X. APPLICATION QUALIFICATIONS**

### **CALIFORNIA STATE UNIVERSITY, CHICO** **Statement of Capabilities for Watershed Research and Planning**

The protection and enhancement of local creeks and watersheds by local community groups is a high priority at California State University, Chico. Toward this end, faculty and resources, conservation groups, public agencies, and others as needed are utilized. As a part of its community service mission, it is the policy of the University Research Foundation to organize teams for special projects and to provide the kinds of services described below.

**Project Administration:** The Research Foundation, as part of its regular operation, searches for government and foundation funding opportunities, makes contact with those organizations and provides assistance in grant proposal writing. Foundation personnel then administer the grant funds, provide auditing, and bookkeeping functions, and insure compliance with all government regulations and procedures.

**Faculty:** The primary mission of our faculty is teaching our own students. However, with funds generated from grants and contracts, our faculty often undertake research, planning, and other community based projects. Faculty who have particular expertise in watershed research and planning are listed on attached pages. Faculty can also be of service by supervising interns and conducting class projects that relate to the mission of the watershed protection groups (see below). Environmental education faculty are also available to assist local school teachers in creating and teaching curricula about our region's diverse natural environments.

**Department, Institutes, Centers and Laboratories:** Special units of the university are often organized and called upon to address specific community and regional needs. Those related to watershed protection are listed on the attached pages. In addition to the more obvious administrative units, such as the Department of Geography and Planning, there are others that could be called on to fill specific needs, such as the Department of Communication Design and Journalism, which can produce informational material such as newsletters, videos, and press releases. The Geographic Information Center (GIC) has the capability of collecting and compiling public domain maps through the internet as well as producing GIS maps on request.

**Internships and Class Projects:** Other possible resources are community based internships supervised by several of the departments and faculty listed on the attachments. In the past, interns have gained personal knowledge and skills while providing community service in environmental monitoring, report writing, field mapping, GIS mapping, interviewing informants, documentary research, classroom teaching assistance, plan design, and questionnaire design and administration. Such win-win arrangements can also be established for small groups of students, and sometimes an entire class may be organized around a particular issue or need, e.g., Geography 224 Planning Studio.

**Project Personnel:**

**Director:** **Dr. Donald Holtgrieve**, Professor of Geography and Planning, CSUC. He teaches courses in water resources and environmental planning. Dr. Holtgrieve has been the recipient of many grants and awards, with a particular focus on the environment, specifically water quality and watershed management. He has extensive experience in directing grants awarded by both State and Federal Agencies, as well as official certification in Land Use, Transportation, and Wetlands Planning. Dr. Holtgrieve has supervised over 200 projects over the last 25 years. As Project Director, Dr. Holtgrieve will provide assurance that adequate resources are provided to the project, and will be the first line of communication between CALFED and CSU Chico.

**Manager:** **Allen Harthorn, MS**, has completed degrees in Geography, BA, Agriculture, BS and MS, and has a Agricultural specialist credential, as well as credential certifications in Life Sciences, Social Sciences, Art and Multiple Subjects. He has many years of experience managing training projects for CSU Chico. He is an avid fisherman and his personal involvement with and love for the Butte Creek Watershed led him to start the Butte Creek Watershed Conservancy. Mr. Harthorn was personally responsible for obtaining the initial FWS, CALFED and NFWF grants to develop a Management Strategy for the Butte Creek Watershed and the For the Sake of Salmon grant to hire a watershed coordinator. With the watershed project team, he has written proposals and received funding for two research projects, one restoration project, one four-partner acquisition and restoration of a 93 acres parcel on Butte Creek, and the Butte Creek Watershed Education Project. As Project Manager, Mr. Harthorn will continue his coordination and public outreach efforts, as well as continuing to develop his extensive and exhaustive list of educational, professional, agency and personal contacts for the watershed education project.

**Education Coordinator:** Anne Kinney Stephens received a BS in Biological Sciences from the University of California Davis with an emphasis in botany. She worked at the U.C. Davis Arboretum, co-producing the 1986 international seed exchange catalog, propagating native plants and accessioning records. Anne worked for four years teaching outdoor education with Exploring New Horizon's Environmental Education Project in Loma Mar, California and also acting as a school district liaison for the program. She has been a secondary science teacher since 1987 and staff developer for the California Science project since 1996. She has been coordinating the Butte Creek Education Project since its inception in 1996, is a member of the Science Task Force for Chico Unified School District and has been trained as an Adopt-A-Watershed facilitator.

#### **XI. COMPLIANCE WITH STANDARD TERMS AND CONDITIONS**

CSU Chico will comply with standard terms and conditions associated with CALFED grant award.

# BUTTE COUNTY

OFFICE OF  
EDUCATION

JERRY McGUIRE  
SUPERINTENDENT

Program & Resource  
Development

Educational Support  
Services

1859 Bird Street  
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Phone: (530) 538-7678  
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Jerry Allred, PhD.  
Director

Susan St. Germaine-Morger  
Coordinator  
Program & Grant  
Development

Susan J. Thompson  
Grants Manager

Yolanda Medina  
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Board of Education

Bessie Hironimus  
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Brenda J. McLaughlin  
Robert W. Purvis  
Pat Matthews Spear  
Betty Vassar

An Equal Opportunity  
Employer

April 14, 1999

Don Holtgrieve, Ph. D.  
Project Director  
California State University, Chico  
Chico, CA 95929

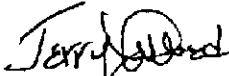
Dear Dr. Holtgrieve:

Butte County Office of Education is a most interested and committed partner in the Butte Creek Watershed Education Project that CSU Chico is coordinating and proposing for grant funding from CALFED.

As an educational institution linking Butte County's teachers and systems with the highest quality curriculum and staff development opportunities, we are particularly interested in your proposed Adopt-a Watershed leadership training program and the related materials supporting implementation of a standards based k-12 science curriculum. To support and complement your proposal, BCOE agrees to house the Adopt-a-Watershed kits at the Instructional Resource Center and to include the leadership training program in its schedule of offerings for teachers in local schools.

We look forward to being active partners supporting this important project. Please keep us informed regarding its status and our role in its implementation after funding announcements are made.

Sincerely,



Dr. Jerry Allred,  
Director

"WHERE CHILDREN ARE OUR MOST VALUABLE RESOURCE"



April 13, 1999

To Whom It may Concern:

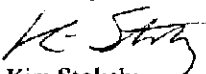
This letter is written in support of the Butte Creek Watershed Education Project CALFED proposal. Adopt-A-Watershed has worked closely with the people from Butte Creek Watershed Education Project for several months as they undertake the implementation of a comprehensive, in-depth program.

The project proposed by the Butte Creek Watershed Education Project compliments and strengthens the proposal submitted by Adopt-A-Watershed and provides a strong educational model for replication elsewhere.

I have been impressed how the Butte Creek Watershed Education Project has thoughtfully and effectively begun implementation of their project, providing high quality programs focused on the needs of the Sacramento River watershed for K-12 students. Butte Creek Watershed Education Project makes it possible for children to take an active role in protecting and restoring the Bay Delta watershed. Support of this proposal will have a ripple effect by educating children whose responsibility it will be to care for Bay Delta system for generations to come.

We strongly encourage your support of this proposal.

Sincerely,

  
Kim Stokely  
Executive Director

P.O. BOX 1850, 98 CLINIC AVE., SUITE B, HAYFORK, CA 96041  
(530) 628-5334 FAX: (530) 628-4919 e-mail: aaw@Adopt-A-Watershed.org www/Adopt-A-Watershed.org

*CSU, Chico Research Foundation*  
California State University, Chico  
Chico, California 95929-0870  
530-898-5700 Fax: 530-898-6804

April 16, 1999

Sutter County Board of Supervisors  
1160 Civic Center Blvd.  
Yuba City, CA 95993

Kristin Cooper Carter, Coordinator  
Environmental Resource Program  
Office of Sponsored Programs  
California State University, Chico  
Chico, CA 95929-0870

Dear Supervisors Kroon, Nelson, Munger, Bechtel, Akin,

A proposal titled, "Butte Creek Watershed Education Project" will be submitted on April 16, 1999 for consideration by the CALFED Bay-Delta Program's Ecosystem Restoration Program and Strategic Plan in response to the 1999 Proposal Solicitation Package. This will run for two (2) years and is for \$141,512. The Project Director is Dr. Donald Holtgrieve. He can be reached on the CSU, Chico campus at (530) 898-5780.

An Executive Summary of this proposal will be forthcoming by the end of the month.

If you have any questions about this proposal, please feel free to call my office at (530) 898-5026.

Sincerely,



Kristin Cooper-Carter, Coordinator  
Environmental Resource Center

KCC/lk  
Enclosure

*CSU, Chico Research Foundation*  
*California State University, Chico*  
*Chico, California 95929-0870*  
530-898-5700 Fax: 530-898-6804

April 16, 1999

Sutter County Planning Department  
Rich Hall  
1160 Civic Center Blvd.  
Yuba City, CA 95993

Kristin Cooper-Carter  
Environmental Resource Program  
Office of Sponsored Programs  
California State University, Chico  
Chico, CA 95929-0870

Dear Mr. Hall,

A proposal titled, "Butte Creek Watershed Education Project" will be submitted on April 16, 1999 for consideration by the CALFED Bay-Delta Program's Ecosystem Restoration Program and Strategic Plan in response to the 1999 Proposal Solicitation Package. The project period for this proposal runs for two years and is in the amount of \$141,512. The Project Director is Dr. Donald Holtgrieve. He can be reached on the CSU, Chico campus at (530) 898-5780.

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If you have any questions about this proposal, please feel free to call my office at (530) 898-5026.

Sincerely,



Kristin Cooper-Carter, Coordinator  
Environmental Resource Center

KCC/ik  
Enclosure

*CSU, Chico Research Foundation*  
*California State University, Chico*  
*Chico, California 95929-0870*  
*530-898-5700 Fax: 530-898-6804*

April 16, 1999

Placer County Planning Department  
Fred Weager  
11414 B Avenue  
Auburn, CA 95603

Kristin Cooper-Carter  
Environmental Resource Program  
Office of Sponsored Programs  
California State University, Chico  
Chico, CA 95929-0870

Dear Mr. Weager,

A proposal titled, "Butte Creek Watershed Education Project" will be submitted on April 16, 1999 for consideration by the CALFED Bay-Delta Program's Ecosystem Restoration Program and Strategic Plan in response to the 1999 Proposal Solicitation Package. The project period for this proposal runs for two years and is in the amount of \$141,512. The Project Director is Dr. Donald Holtgrieve. He can be reached on the CSU, Chico campus at (530) 898-5780.

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If you have any questions about this proposal, please feel free to call my office at (530) 898-5026.

Sincerely,



Kristin Cooper-Carter, Coordinator  
Environmental Resource Center

KCC/lk  
Enclosure

**CSU, Chico Research Foundation**  
California State University, Chico  
Chico, California 95929-0870  
530-898-5700 Fax: 530-898-6804

April 16, 1999  
Placer County Planning Department  
Fred Weager  
11414 B Avenue  
Auburn, CA 95603

Kristin Cooper-Carter  
Environmental Resource Program  
Office of Sponsored Programs  
California State University, Chico  
Chico, CA 95929-0870

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An Executive Summary of this proposal will be forthcoming by the end of the month.

If you have any questions about this proposal, please feel free to call my office at (530) 898-5026.

Sincerely,



Kristin Cooper-Carter, Coordinator  
Environmental Resource Center

KCC/lk  
Enclosure

APPLICATION FOR  
FEDERAL ASSISTANCE

<b>1. TYPE OF SUBMISSION</b> <i>Application</i> <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction		<b>2. DATE SUBMITTED</b> 4/16/99		Applicant Identifier	
<i>Preapplication</i> <input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction		<b>3. DATE RECEIVED BY STATE</b>		State Applicant Identifier	
		<b>4. DATE RECEIVED BY FEDERAL AGENCY</b>		Federal Identifier	

<b>5. APPLICANT INFORMATION</b> Legal Name: The CSU, Chico Research Foundation Address (give city, county, state, and zip code): Kendall Hall, Room 114 CSU, Chico Chico, CA 95929-0870		Organizational Unit: Name and telephone number of person to be contacted on matters involving this application (give area code): Technical: Dr. Donald Holtgrieve: (530) 898-5780 Budgetary: Kristin Cooper-Carter: (530) 898-5026 Contractual: Virginia Sturr: (530) 898-5700	
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<b>6. EMPLOYER IDENTIFICATION NUMBER (EIN):</b> <div style="border: 1px solid black; padding: 2px; display: inline-block;">         6 8 - 0 3 8 6 5 1 8       </div>	<b>7. TYPE OF APPLICANT: (enter appropriate letter in box)</b> <span style="border: 1px solid black; padding: 0 5px;">I</span> A. State                      H. Independent School Dist. B. County                    I. State Controlled Institution of Higher Learning C. Municipal                J. Private University D. Township                K. Indian Tribe E. Interstate                L. Individual F. Intermunicipal          M. Profit Organization G. Special District        N. Other (Specify) _____
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<b>8. TYPE OF APPLICATION:</b> <input type="checkbox"/> New <input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Revision If Revision, enter appropriate letter(s) in box(es): <span style="border: 1px solid black; padding: 0 5px;"> </span> <span style="border: 1px solid black; padding: 0 5px;"> </span> A. Increase Award    B. Decrease Award    C. Increase Duration D. Decrease Duration    Other (specify): _____	<b>9. NAME OF FEDERAL AGENCY:</b> CalFed
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<b>10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:</b> <div style="border: 1px solid black; padding: 2px; display: inline-block;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <span style="margin: 0 5px;">-</span> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; display: inline-block;"></div> </div> TITLE: _____	<b>11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:</b> Butte Creek Watershed Education
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<b>12. AREAS AFFECTED BY PROJECT (cities, counties, states, etc.):</b> Butte County		<b>13. PROPOSED PROJECT:</b> Start Date: Sept. 99    Ending Date: Aug. 01	
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<b>14. CONGRESSIONAL DISTRICTS OF:</b> a. Applicant                      2 b. Project                              2		<b>15. ESTIMATED FUNDING:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">a. Federal</td> <td style="width: 10%;">\$</td> <td style="width: 70%; text-align: right;">113,972.00</td> </tr> <tr> <td>b. Applicant</td> <td>\$</td> <td style="text-align: right;">.00</td> </tr> <tr> <td>c. State</td> <td>\$</td> <td style="text-align: right;">.00</td> </tr> <tr> <td>d. Local</td> <td>\$</td> <td style="text-align: right;">.00</td> </tr> <tr> <td>e. Other</td> <td>\$</td> <td style="text-align: right;">.00</td> </tr> <tr> <td>f. Program Income</td> <td>\$</td> <td style="text-align: right;">.00</td> </tr> <tr> <td>g. TOTAL</td> <td>\$</td> <td style="text-align: right;">113,972.00</td> </tr> </table>	a. Federal	\$	113,972.00	b. Applicant	\$	.00	c. State	\$	.00	d. Local	\$	.00	e. Other	\$	.00	f. Program Income	\$	.00	g. TOTAL	\$	113,972.00
a. Federal	\$	113,972.00																					
b. Applicant	\$	.00																					
c. State	\$	.00																					
d. Local	\$	.00																					
e. Other	\$	.00																					
f. Program Income	\$	.00																					
g. TOTAL	\$	113,972.00																					

<b>16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?</b> a. YES THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE: _____ b. NO <input checked="" type="checkbox"/> PROGRAM IS NOT COVERED BY E.O. 12372 <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW	<b>17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?</b> <input type="checkbox"/> Yes    If "Yes," attach an explanation. <input checked="" type="checkbox"/> No
--	--

18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT. THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.		
a. Typed Name of Authorized Representative Jeff Wright	b. Title Director, Office of Sponsored Programs	c. Telephone number (530)-898-5700
d. Signature of Authorized Representative 		e. Date Signed 4/14/1999

U.S. Department of the Interior

Certifications Regarding Debarment, Suspension and  
Other Responsibility Matters, Drug-Free Workplace  
Requirements and Lobbying

Persons signing this form should refer to the regulations referenced below for complete instructions:

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - The prospective primary participant further agrees by submitting this proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. See below for language to be used; use this form for certification and sign; or use Department of the Interior Form 1954 (DI-1954). (See Appendix A of Subpart D of 43 CFR Part 12.)

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)

Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12)

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction, grant, cooperative agreement or loan.

PART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters -  
Primary Covered Transactions

CHECK ☒ IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
  - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
  - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
  - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

PART B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -  
Lower Tier Covered Transactions

CHECK ☐ IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

01-7618  
March 1995  
(This form consolidates 01-1953, 01-1954,  
01-1955, 01-1956 and 01-1963)

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**PART C: Certification Regarding Drug-Free Workplace Requirements**

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**CHECK ☒ IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS NOT AN INDIVIDUAL.**

**Alternate I. (Grantees Other Than Individuals)**

**A. The grantee certifies that it will or continue to provide a drug-free workplace by:**

- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing an ongoing drug-free awareness program to inform employees about--
  - (1) The dangers of drug abuse in the workplace;
  - (2) The grantee's policy of maintaining a drug-free workplace;
  - (3) Any available drug counseling, rehabilitation, and employee assistance programs; and
  - (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will --
  - (1) Abide by the terms of the statement; and
  - (2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
- (e) Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification numbers(s) of each affected grant;
- (f) Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted --
  - (1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
  - (2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- (g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a) (b), (c), (d), (e) and (f).

**B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:**

**Place of Performance (Street address, city, county, state, zip code)**

Butte County

**Check ☐ if there are workplaces on file that are not identified here.**

---

**PART D: Certification Regarding Drug-Free Workplace Requirements**

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**CHECK ☐ IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS AN INDIVIDUAL.**

**Alternate II. (Grantees Who Are Individuals)**

- (a) The grantee certifies that, as a condition of the grant, he or she will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant;
- (b) If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, he or she will report the conviction, in writing, within 10 calendar days of the conviction, to the grant officer or other designee, unless the Federal agency designates a central point for the receipt of such notices. When notice is made to such a central point, it shall include the identification number(s) of each affected grant.

PART E: Certification Regarding Lobbying  
Certification for Contracts, Grants, Loans, and Cooperative Agreements

CHECK IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND  
THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT;  
SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.

CHECK IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL  
LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR  
SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL



TYPED NAME AND TITLE Jeff Wright, Director, Office of Sponsored Programs

DATE 4-12-99

## ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET.  
SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

**NOTE:** Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

I, the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§472B-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7326) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.

Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.

Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523), and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1956, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

NATURE OF AUTHORIZED CERTIFYING OFFICIAL  Jeff Wright	TITLE Director, Office of Sponsored Programs
APPLICANT ORGANIZATION  The CSU, Chico Research Foundation	DATE SUBMITTED  4-16-99

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*CSU, Chico Research Foundation*  
*California State University, Chico*  
*Chico, California 95929-0870*  
*(530) 898-4044; FAX: (530) 898-6804*

April 12, 1999

Butte County Board of Supervisors  
Beeler, Davis, Dolan, Houx and Josiassen  
25 County Center Drive  
Oroville, CA 95965

Kristin Cooper Carter, Coordinator  
Environmental Resource Program  
Office of Sponsored Programs  
California State University, Chico  
Chico, CA 95929-0870

Dear Supervisors Beeler, Davis, Dolan, Houx and Josiassen,

In compliance with the requirements of the CALFED Bay-Delta Program's Ecosystem Restoration Program and Strategic Plan 1999 Proposal Solicitation Package, we are formally notifying you of the submission of eight grant applications that reside either in part or fully within the boundaries of Butte County.


A list of the proposals submitted follows:

1. Upper Butte Creek Road Management Improvement Project
2. Butte Creek Watershed Education Program
3. Cherokee Watershed Sediment Transport and Water Quality Analysis
4. Butte Creek Howard Slough Riparian Restoration
5. Development of a Watershed Management Strategy for Little Chico Creek Watershed, Phase II and III.
6. Watershed Coordination for Big and Little Chico Creeks
7. Butte Creek Acquisition, Revegetation, and Restoration Assessment Project
8. Sacramento Valley: Eastside Small Streams

Executive summaries of all of these proposals will be forthcoming.

If you have any questions about these proposals, please feel free to call my office at (530) 898-5026.

Sincerely,



Kristin Cooper Carter  
cc. Butte County Planning Department,  
Thomas Parilo  
Project Coordinators  
Jeff Wright

# Butte Creek Watershed

